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(54) Title: COMPOSITIONS, SOLUTIONS, AND METHODS USED FOR TRANSPLANTATION

(57) Abstract: This invention discloses a method for reducing the intracellular lipid storage material of a cell, tissue, or organ for transplantation and features solutions, methods and kits that induce the metabolic elimination of lipid storage in a cell, tissue, or organ. In one exemplary approach, the process involves contacting a cell, tissue, or organ with a perfusate solution that include catabolic hormones and amino acids, at physiological conditions, to increase lipid export and lipid oxidation. If desired, the cell, tissue, or organ of the invention may also be heat shock preconditioned. The invention can be used to prepare, recondition, or store a cell, tissue, or organ for transplantation by increasing tolerance to ischemia-reperfusion and cold-preservation related injury.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/33068

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01N 1/00

US CL : 435/1.1, 1.2, 1.3, 374; 436/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/1.1, 1.2, 1.3, 374; 436/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,298,417 A (CANCEDDA et al) 29 March 1994 (29.03.1994), see EXAMPLE.	1-87
X	US 5,635,344 A (GARCIA et al) 03 June 1997 (03.06.1997), see entire document.	1-87

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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- "P" document published prior to the international filing date but later than the priority date claimed

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

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